

## Claims

1. A stator assembly for an electrical machine, including a housing (2) and a stator (4), wherein the housing (2) has at least one inward-oriented bead (3) extending in the axial direction (X-X).
2. The stator assembly as defined by claim 1, characterized in that the stator (4) has at least one inward- or outward- oriented bead (5) extending in the axial direction.
3. The stator assembly as defined by claim 2, characterized in that the beads (3) on the housing (2) and the beads (5) on the stator (4) are embodied such that in the installed state, the housing (2) and the stator (4) are connected at a plurality of connecting points (A, B, C, D), and one gap (S1, S2, S3, S4, S5) each is embodied in the circumferential direction between the respective connecting points (A, B, C, D).
4. The stator assembly as defined by claim 2 or 3, characterized in that between a bead (3) of the housing (2) and a bead (5) of the stator (4), there is a gap (S3) at the lowest point of the beads in the installed state.
5. The stator assembly as defined by one of claims 2 through 4, characterized in that between one bead (3) of the housing and one bead (5) of the stator (4) in the installed, a gap (S2, S4) between the housing of the stator is embodied at a transition from the outer diameter of the stator to the bead (5).

6. The stator assembly as defined by one of the foregoing claims, characterized in that a plurality of beads are embodied on the housing (2) and on the stator (4) and in particular are each spaced apart equally from one another in the circumferential direction.
7. The stator assembly as defined by one of the foregoing claims, characterized in that the beads (3) on the housing (2) in the axial direction (X-X) correspond to a length of the stator (1) in the axial direction (X-X).
8. The stator assembly as defined by one of the foregoing claims, characterized in that a bearing (6) for an armature shaft of the electrical machine is formed integrally on the housing (2).
9. The stator assembly as defined by one of the foregoing claims, characterized in that securing openings (7) for securing the electrical machine are formed integrally on the housing (2).
10. An electrical machine, including a stator assembly as defined by one of the foregoing claims.